A Field Project Report on

COURCE REGISTRATION FORM

Submitted

In partial fulfilment of the requirements for the award of the degree

BACHELOR OF TECHNOLOGY

In

COMPUTER SCIENCE AND ENGINEERING

By

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CERTIFICATE

This is to certify that the field project entitled "**THE COURSE REGISTRATION FORM**" is being submitted by **[K.Jaswanth Kumar], [231FA04757], [Y.Sunandha], [231FA04775], [T.Mohan Satya], [231FA04782]**, and **[K.Poojitha], [231FA04844]** in partial fulfilment of the requirements for the degree of **Bachelor of Technology (B.Tech.) in Computer Science and Engineering** at Vignan's Foundation for Science, Technology and Research (Deemed to be University), Vadlamudi, Guntur District, Andhra Pradesh, India.

This is a bonafide work carried out by the aforementioned students under my guidance and supervision

Guide

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DECLARATION

Date:

We hereby declare that the work presented in the field project titled "COURSE REGISTRATION FORM" is the result of our own efforts and investigations.

This project is being submitted under the supervision of **Mr.T.Narashima Rao, Assistant Professor** in partial fulfillment of the requirements for the Bachelor of Technology (B.Tech.) degree in Computer Science and Engineering at Vignan's Foundation for Science, Technology and Research (Deemed to be University), Vadlamudi, Guntur, Andhra Pradesh, India.

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CONTENTS

1.INTRODUCTION

This project is a simple Course Registration System developed using HTML. It allows students to view available courses and register for them online. The interface includes forms for entering student details and selecting desired courses. This system helps in managing course enrollment efficiently and reduces paperwork in educational institutions.

1.1 Problem Definition:

In educational institutions, managing course registrations manually can be time-consuming, inefficient, and prone to human errors. Students often struggle with paperwork, long queues, and delays in confirmation. An automated system is needed to streamline the course registration process and enhance user experience by providing a simple, interactive, and efficient online registration platform.

1.2 Existing System:

The traditional course registration process includes:

1. Manual Paper-Based Registration – Students fill out physical forms to register for courses, which are later entered into the system by administrators.

2. Email-Based Registration – Some institutions allow students to send an email with their course preferences, which leads to delays in processing.

3. Limited Online Portals – Some online systems are complex, lack real-time validation, and do not provide an interactive step-by-step registration process.

Problems with the Existing System:

Time-consuming and inefficient.

High chances of data entry errors.

No instant confirmation or validation.

Limited accessibility and poor user experience.

1.3 Proposed System:

This automated course registration system simplifies the enrollment process through a user-friendly, multi-step web form.

Features of the Proposed System:

1. Step-by-Step Registration: Users can enter their details in structured steps, reducing confusion.

2. Dynamic Course Selection: Course details (duration, fee) are auto-updated based on selection.

3. Validation & Error Handling: Prevents incomplete form submission.

4. Instant Confirmation: Provides success feedback upon registration completion.

5. Responsive Design: Works on multiple devices for easy access.

Advantages:

Reduces human intervention and errors.

Enhances user experience with a simple, interactive UI.

Speeds up the registration process.

Provides instant feedback and confirmation.

1.4 Literature Review:

Several research papers and online systems have been analyzed to design this efficient course registration form:

1. Online Registration Systems for Universities

Studies show that online registration reduces paperwork and administrative workload by up to 60%.

Example: Universities using Moodle or Blackboard integrate automated course selection, improving student engagement.

2. User Experience in Web-Based Registration

Research highlights that multi-step forms increase completion rates by 30% compared to single-page forms.

The step-by-step approach minimizes overwhelm and ensures accurate input.

3. JavaScript-Based Dynamic Forms Using JavaScript for real-time validation and dynamic content updates makes registration more interactive. Example: Google Forms uses JavaScript for instant validation and feedback.

2.SYSTEM REQUIREMENTS

The system requirements are divided into hardware requirements, software requirements, and Software Requirements Specification (SRS).

2.1 Hardware Requirements

These are the minimum and recommended hardware specifications for running the web-based course registration system.

Minimum Hardware Requirements:

Processor: Intel Core i3 (or equivalent AMD processor)

RAM: 4 GB

Storage: 20 GB of free space

Display: 1024×768 resolution

Network: 10 Mbps Internet connection

Input Devices: Keyboard & Mouse

Recommended Hardware Requirements:

Processor: Intel Core i5/i7 (or equivalent AMD Ryzen)

RAM: 8 GB or higher

Storage: 50 GB free SSD storage

Display: Full HD (1920×1080) resolution

Network: 50 Mbps Internet connection

Input Devices: Keyboard, Mouse, or Touchscreen

2.2 Software Requirements

These are the software dependencies needed for running and developing the system.

For End Users (Client-Side)

Operating System: Windows 10/11, macOS, Linux

Web Browser: Google Chrome, Mozilla Firefox, Microsoft Edge, or Safari (latest versions)

Network: Internet access for online hosting

For Developers (Development Environment)

Operating System: Windows 10/11, macOS, Linux

Text Editor/IDE: Visual Studio Code, Sublime Text, Atom

Web Technologies:

Frontend: HTML, CSS, JavaScript

Backend (optional for future enhancements): Node.js, PHP, Python (Django/Flask)

Database (optional if storing data): MySQL, PostgreSQL, Firebase, or MongoDB

Software Requirements Specification (SRS)

***Introduction**

This system is a Course Registration Form that allows users to register for courses by entering personal information and selecting a course. The system is web-based and runs on any modern web browser.

****Functional Requirements**

1. User Registration: Users can enter their name, email, password, and contact details.

2. Multi-Step Form Navigation: The form is divided into steps for a better user experience.

3. Course Selection: Users can choose from multiple courses like C, Java, Python, and JavaScript.

4. Dynamic Course Details: The selected course's duration and fee are displayed dynamically.

5. Success Confirmation: After submission, users receive a success message confirming their course registration.

6. Contact Information Display: Users can view contact details for inquiries.

***Non-Functional Requirements**

1. Usability: The system should be easy to navigate and mobile-friendly.

2. Performance: The form should load within 2 seconds under normal network conditions.

3. Security: User data should be validated on the client side before submission.

4. Scalability: The system should be extendable to include backend storage in the future.

5. Compatibility: The system should work on all major browsers and screen sizes.

****Constraints**

No backend database is implemented in the current version. The system is static and runs only on the client-side (HTML, CSS, JavaScript).

Users must have an active internet connection if hosted online.

3.SYSTEM DESIGN

Overview

The system is a web-based course registration platform that allows users to register for courses through a multi-step form. It includes validation, navigation between steps, and a confirmation message upon successful registration.

3.1 Modules of system

The system consists of several modules that handle different aspects of the registration process.

a. User Interface Module

Purpose: Provides a front-end for users to enter their details and register.

Components:

HTML for form structure

CSS for styling

JavaScript for dynamic behavior

b. Form Handling Module

Purpose: Manages form validation, navigation, and submission.

Functions:

show Pagé (page Number): Controls multi-step navigation.

Show Success Message (): Displays the success message.

Update Course Details (): Updates course information dynamically.

c. Course Management Module

Purpose: Handles course selection and details display.

Functions:

Update Course Details(): Displays course duration and fee.

d. Contact Information Module

Purpose: Displays contact details for inquiries.

Functions:

Show Contact Info ()

Hide Contact Info ()

3.2 UML Diagrams

A. Use Case Diagram

Actors:

User: Registers for a course.

System: Manages form submission and validation.

Use Cases:

1. Start Registration – User clicks the registration button.

2. Fill Basic Information – User enters name, email, and password.

3. Enter Additional Details – User selects gender, country, and enters phone number.

4. Select Course – User selects a course, and the system displays details.

5. Submit Form – User submits the form, and the system confirms registration.

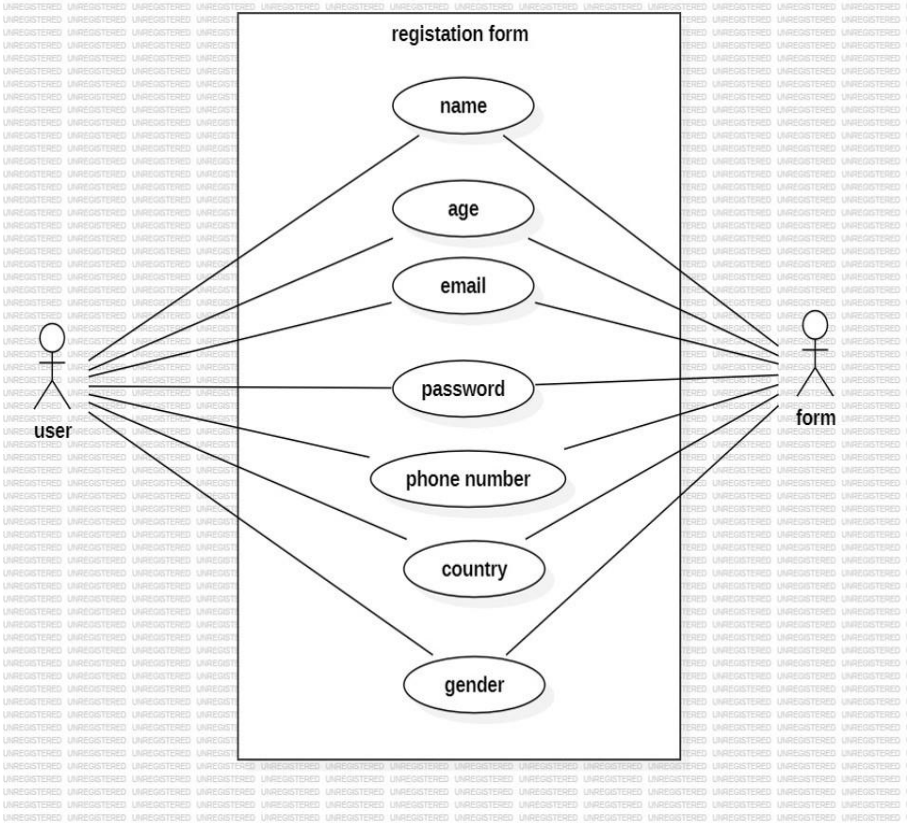


Fig (3.2.1)

4.IMPLEMENTATION

4.1 sample code

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Course Registration Form</title>
  <style>
    @import
url('https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;600&display=s
wap');

    body {
      font-family: 'Poppins', sans-serif;
      background: linear-gradient(to right, #74ebd5, #9face6);
      margin: 0;
      padding: 0;
      display: flex;
      justify-content: center;
      align-items: center;
      min-height: 100vh;
      text-align: center;
    }

    .container {
```

```
  background-color: #ffffff;
  border-radius: 12px;
  padding: 40px 30px;
  box-shadow: 0 10px 25px rgba(0, 0, 0, 0.15);
  width: 100%;
  max-width: 500px;
  margin: 20px;
  animation: fadeIn 0.5s ease-in-out;
}

@keyframes fadeIn {
  from { opacity: 0; transform: translateY(20px); }
  to { opacity: 1; transform: translateY(0); }
}

h1, h2 {
  color: #333;
  margin-bottom: 20px;
}

.form-group {
  margin-bottom: 20px;
  text-align: left;
}

.form-group label {
  display: block;
  font-size: 14px;
  color: #444;
  margin-bottom: 8px;
```

```
  font-weight: 500;
}

.form-group input,
.form-group select {
  width: 100%;
  padding: 12px 15px;
  font-size: 15px;
  border: 1px solid #ccc;
  border-radius: 8px;
  background-color: #f4f7fa;
  box-shadow: inset 0 2px 4px rgba(0,0,0,0.05);
  transition: 0.3s;
}

.form-group input:focus,
.form-group select:focus {
  border-color: #007bff;
  background-color: #ffffff;
  box-shadow: 0 0 8px rgba(0, 123, 255, 0.3);
  outline: none;
}

.form-group input[type="submit"],
.btn {
  background-color: #007bff;
  color: white;
  cursor: pointer;
  border: none;
  padding: 12px 25px;
```

```
  font-size: 15px;
  font-weight: 500;
  border-radius: 6px;
  transition: background 0.3s;
}

.btn:hover {
  background-color: #0056b3;
}

.btn-secondary {
  background-color: #6c757d;
}

.btn-secondary:hover {
  background-color: #5a6268;
}

.btn-container {
  display: flex;
  justify-content: space-between;
  margin-top: 20px;
}

.footer {
  margin-top: 20px;
  font-size: 14px;
  color: #555;
}
```

```
    .page {
      display: none;
    }

    .success-message {
      background-color: #28a745;
      color: white;
      padding: 15px;
      border-radius: 6px;
      margin-top: 20px;
    }

    .image-container img {
      max-width: 100%;
      height: auto;
      border-radius: 10px;
      margin-top: 15px;
    }

    .contact-container p {
      margin: 10px 0;
      color: #444;
      font-weight: 500;
    }
  </style>
</head>
<body>
```

4.2 CODE FOR HOME PAGE

```
  <div id="home" class="container">
    <h1>Welcome to the Course Registration</h1>
```

```
    <div class="image-container">
      <img src="https://s38924.pcdn.co/wp-content/uploads/2021/08/gf-Course-Red-v1.png" alt="Course Registration">
    </div>
    <p>Click below to start the registration process.</p>
    <a href="#" class="btn" onclick="navigateTo('page1')">Go to Registration</a><br><br>
    <a href="#" class="btn btn-secondary" onclick="navigateTo('contact')">Contact Us</a>
  </div>
```

4.3 CONTACT PAGE CODE

```
  <div id="contact" class="container page">
    <h2>Contact Us</h2>
    <div class="contact-container">
      <p><strong>Jaswanth:</strong> 9876543289</p>
      <p><strong>Sunandha:</strong> 9456783798</p>
      <p><strong>Satya:</strong> 9674285648</p>
      <p><strong>Poojitha:</strong> 47694845249</p>
    </div>
    <a href="#" class="btn" onclick="navigateTo('home')">Back to Home</a>
  </div>
```

4.4 PAGE-1 CODE(BASIC INFORMATION)

```
  <div id="page1" class="container page">
    <h2>Step 1: Basic Information</h2>
    <form onsubmit="navigateTo('page2'); return false;">
      <div class="form-group">
        <label for="username">Username</label>
        <input type="text" id="username" required>
      </div>
```

```
      <div class="form-group">
        <label for="email">Email</label>
        <input type="email" id="email" required>
      </div>
      <div class="form-group">
        <label for="password">Password</label>
        <input type="password" id="password" required>
      </div>
      <div class="btn-container">
        <button type="button" class="btn btn-secondary"
onclick="navigateTo('home')">Back</button>
        <button type="submit" class="btn">Next</button>
      </div>
    </form>
  </div>
```

4.5 PAGE-2 CODE(ADDITIONAL INFORMATION)

```
  <div id="page2" class="container page">
    <h2>Step 2: Additional Information</h2>
    <form onsubmit="navigateTo('page3'); return false;">
      <div class="form-group">
        <label for="gender">Gender</label>
        <select id="gender" required>
          <option value="">Select Gender</option>
          <option>Male</option>
          <option>Female</option>
          <option>Other</option>
        </select>
      </div>
      <div class="form-group">
```

```
        <label for="phone">Phone Number</label>
        <input type="tel" id="phone" pattern="[0-9]{10}" required>
      </div>
      <div class="btn-container">
        <button type="button" class="btn btn-secondary"
onclick="navigateTo('page1')">Back</button>
        <button type="submit" class="btn">Next</button>
      </div>
    </form>
  </div>
```

4.6 PAGE-3 CODE(COURSE DETAILS)

```
  <div id="page3" class="container page">
    <h2>Step 3: Select Course</h2>
    <form onsubmit="showSuccessMessage(); return false;">
      <div class="form-group">
        <label for="course">Course</label>
        <select id="course" onchange="updateCourseDetails()" required>
          <option value="">Select Course</option>
          <option value="C">C</option>
          <option value="Java">Java</option>
          <option value="Python">Python</option>
          <option value="JavaScript">JavaScript</option>
          <option value="C++">C++</option>
          <option value="SQL">SQL</option>
          <option value="Full Stack Development">Full Stack Development</option>
          <option value="Web Development">Web Development</option>
        </select>
      </div>
      <div class="form-group">
```

```
      <label>Duration:</label>
      <input type="text" id="courseDuration" readonly>
    </div>
    <div class="form-group">
      <label>Fee:</label>
      <input type="text" id="courseFee" readonly>
    </div>
    <div class="btn-container">
      <button type="button" class="btn btn-secondary"
onclick="navigateTo('page2')">Back</button>
      <input type="submit" value="Submit" class="btn">
    </div>
  </form>
 </div>
```

4.7 SUCCESS MESSAGE CODE

```
 <div id="successMessage" class="container page">
  <h2>Registration Successful!</h2>
  <p>You have successfully registered for <span id="successCourseName"></span>.
🎉</p>
  <p>Duration: <span id="successDuration"></span></p>
  <p>Fee: <span id="successFee"></span></p>
  <div class="image-container">
   <img src="https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcRXZf-
rkWkwrFEbVqAXp7pe7wrg7Up4aSw0aw&s" alt="Success Image">
  </div>
  <a href="#" class="btn" onclick="navigateTo('home')">Go to Homepage</a>
 </div>


 <script>
  function navigateTo(page) {
```

```
    document.querySelectorAll('.container').forEach(section => section.style.display =
'none');
    document.getElementById(page).style.display = 'block';
  }

  function updateCourseDetails() {
    const course = document.getElementById("course").value;
    const durations = {
      "C": "1 Month",
      "Java": "2 Months",
      "Python": "1 Month",
      "JavaScript": "1 Month",
      "C++": "2 Months",
      "SQL": "1 Month",
      "Full Stack Development": "6 Months",
      "Web Development": "4 Months"
    };
    const fees = {
      "C": "1000",
      "Java": "2000",
      "Python": "1500",
      "JavaScript": "1500",
      "C++": "3000",
      "SQL": "2500",
      "Full Stack Development": "6000",
      "Web Development": "4000"
    };
    document.getElementById("courseDuration").value = durations[course] || "";
    document.getElementById("courseFee").value = fees[course] || "";
  }
```

```
    function showSuccessMessage() {
      document.getElementById("successCourseName").textContent =
document.getElementById("course").value;
      document.getElementById("successDuration").textContent =
document.getElementById("courseDuration").value;
      document.getElementById("successFee").textContent =
document.getElementById("courseFee").value;
      navigateTo('successMessage');
    }

    window.onload = () => navigateTo('home');
  </script>
</body>
</html>
```

5. RESULTS

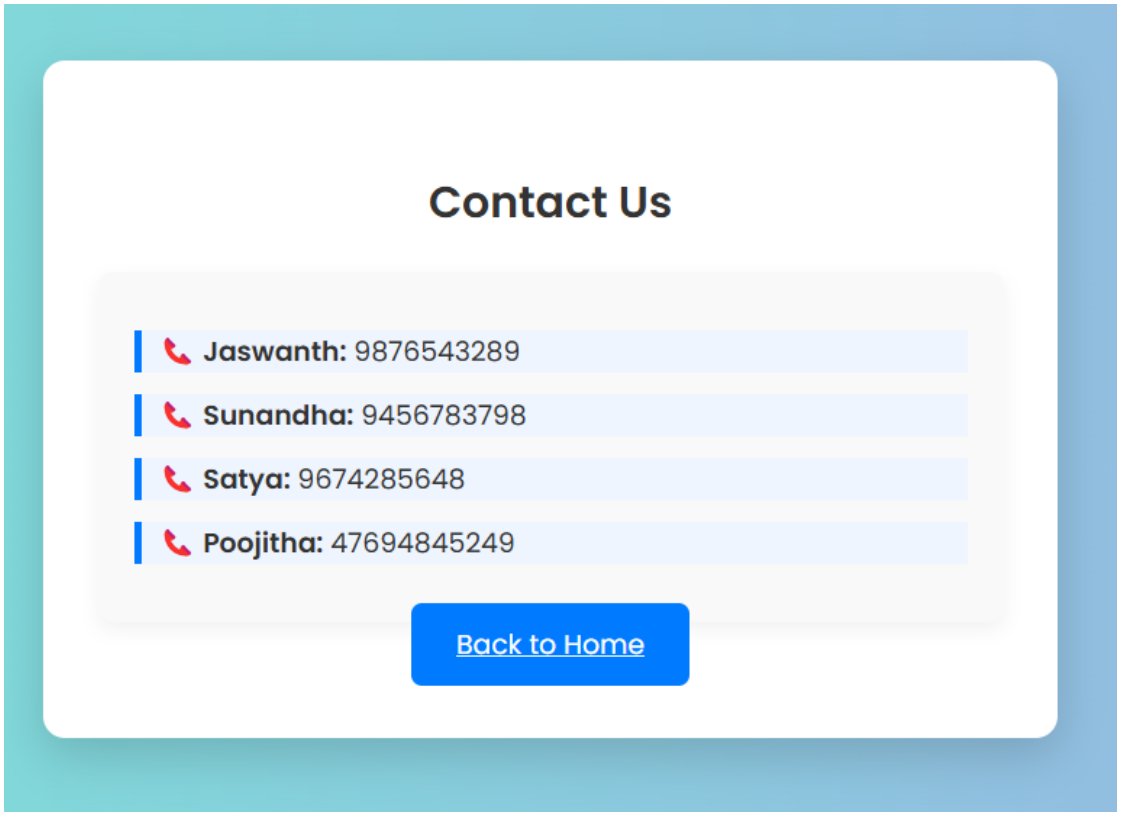
The process would unfold once the user interacts with the form:

1. **Step 1 (Basic Information)**:
    - The user will input their username, email, and password.
2. **Step 2 (Additional Information)**:
    - The user selects their gender and country from dropdowns and enters their phone number.
3. **Step 3 (Course Selection)**:
    - The user selects a course (e.g., C, Java, Python, JavaScript) and sees the course details (e.g., duration and fee).
4. **Success Page**:
    - After submitting the course selection, the user sees a success message that confirms their registration.
    - For example: *"Your registration was successful! You are successfully registered for the Python course. Keep learning and all the best!"*

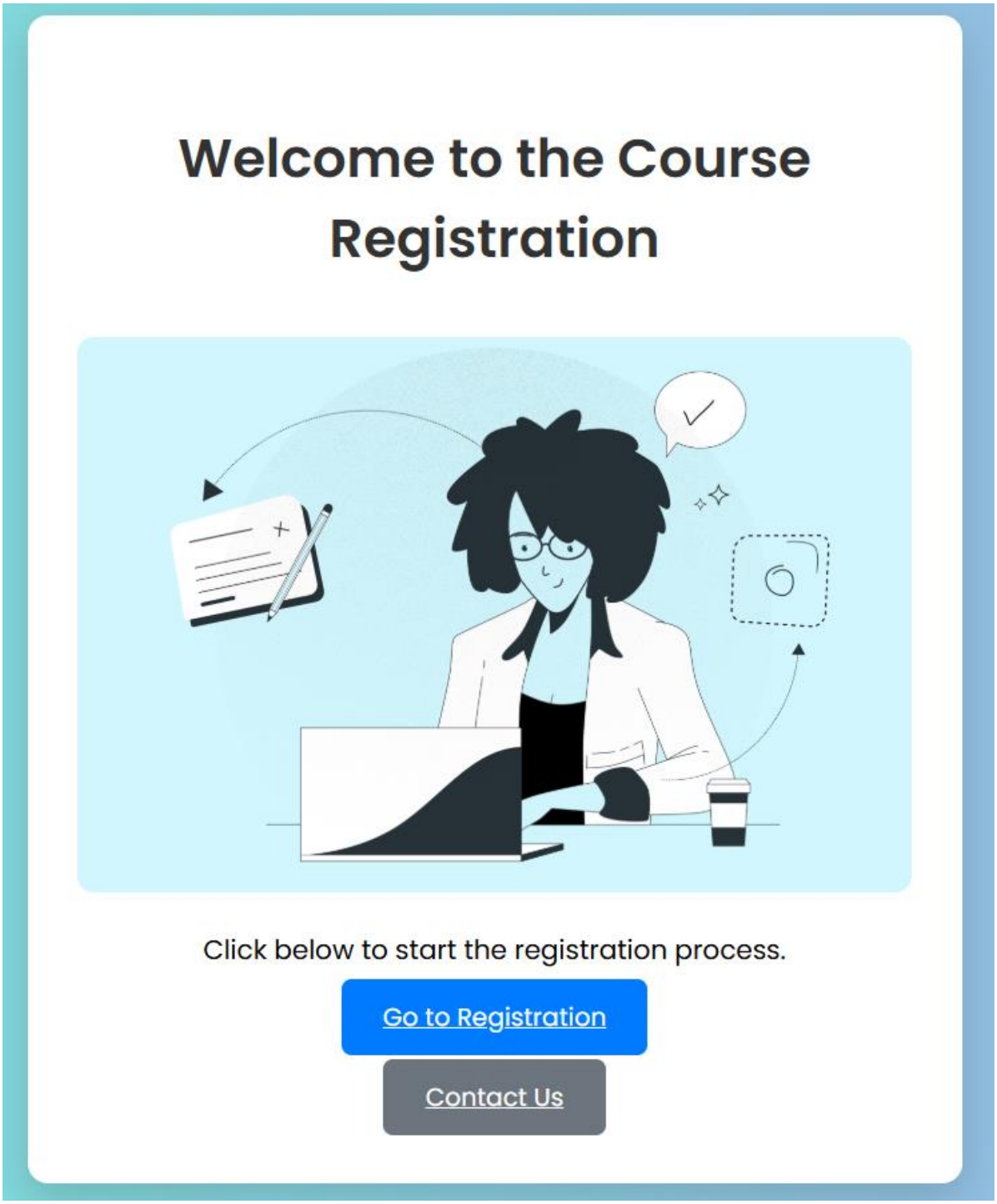
This would be the final result that the user sees after filling out the form and submitting it. The form progresses through the steps, and once the course is selected and the form is submitted, a success message is displayed with the course name.

5.1 OUTPUT SCREEN:

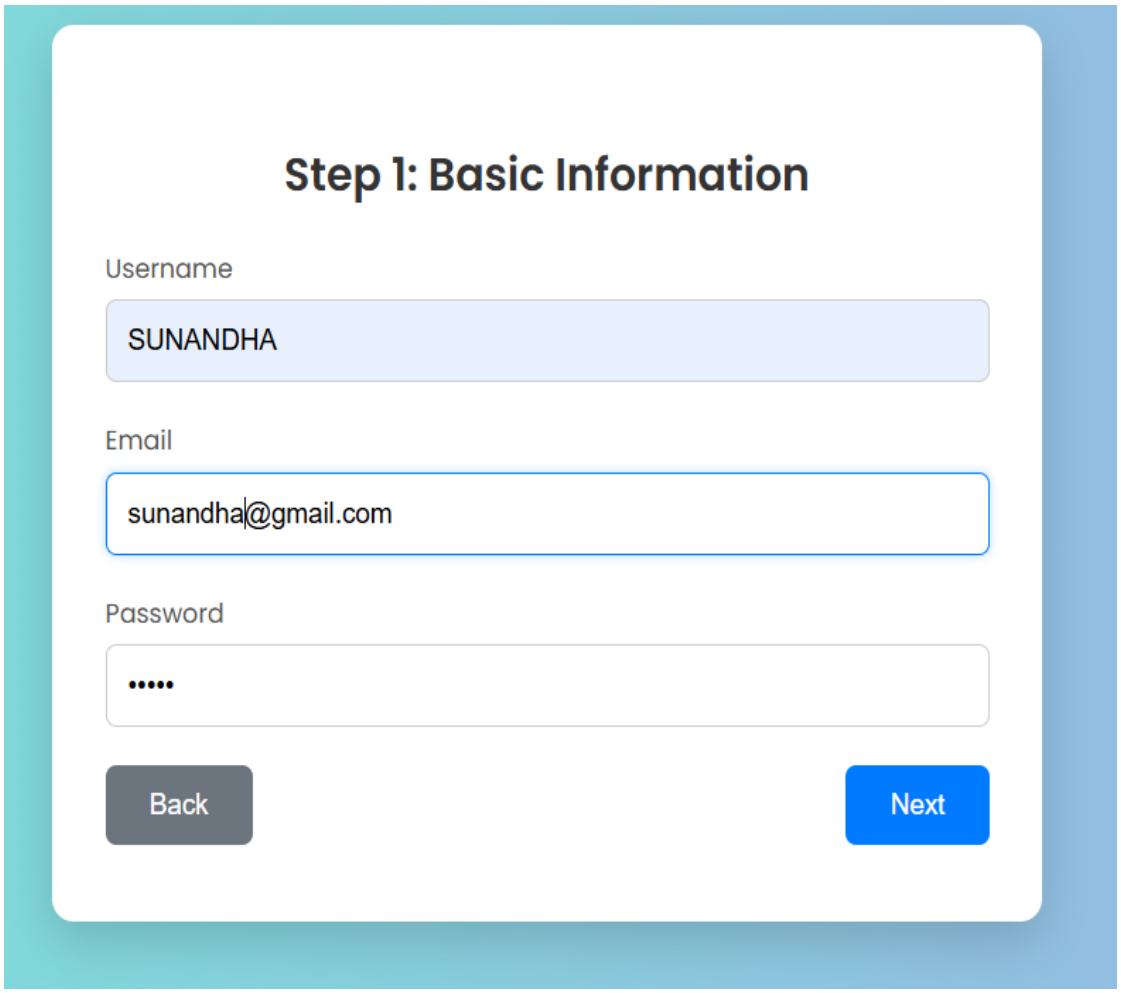
OUTPUT-1: IF ANY QUERY CONTACT US



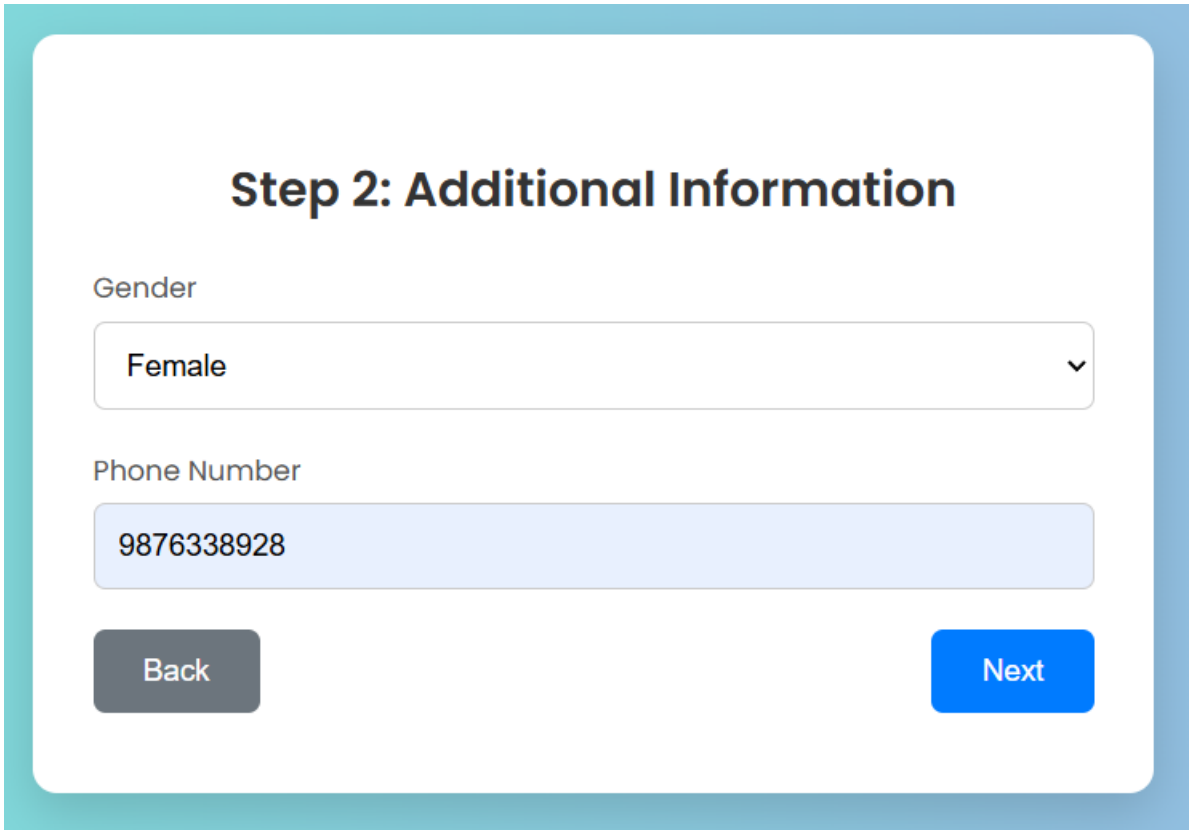
OUTPUT-2: REGISTRATION FORM HOME PAGE



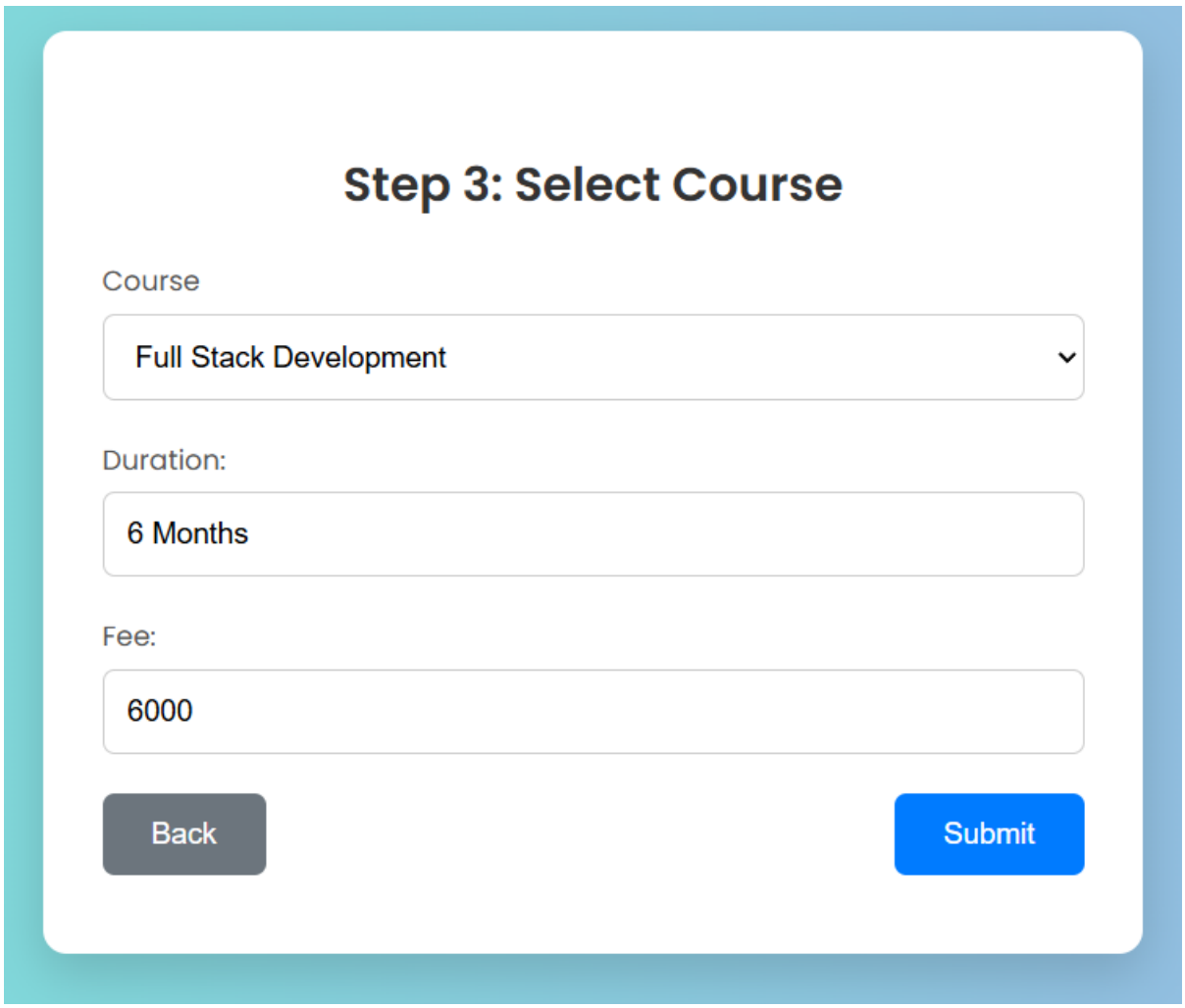
OUTPUT-3: BASIC INFORMATION



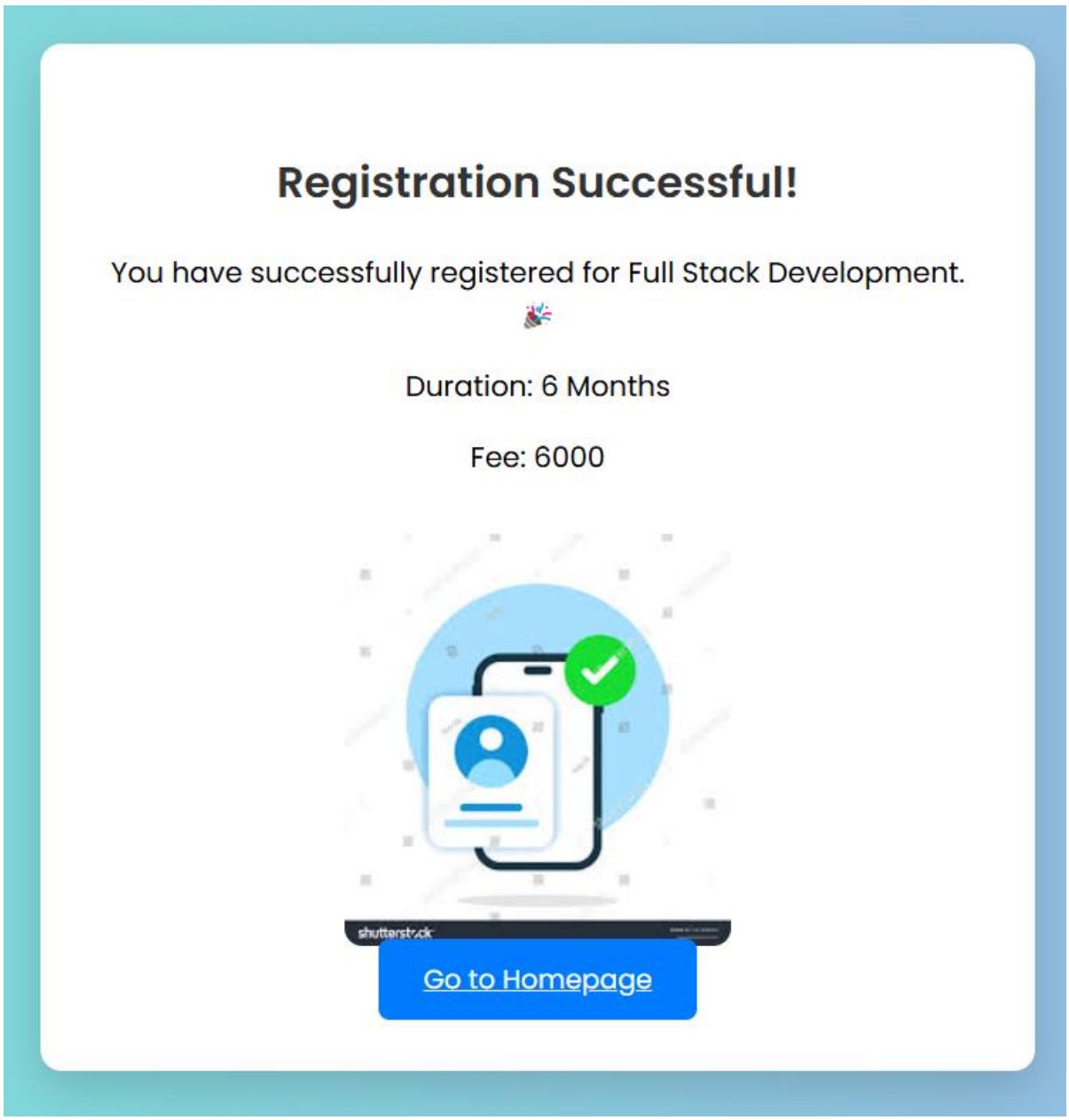
OUTPUT-4: ADDITIONAL INFORMATION



OUTPUT-5: COURSE INFORMATION



FINAL OUTPUT:



6.CONCLUSION

The registration form is designed to provide a user-friendly and visually appealing experience. It includes:

✅ **A welcoming homepage with a call-to-action button for registration.**
✅ **A structured registration form that collects user details such as name, email, age, phone number, country, and gender.**
✅ **Interactive features like input validation and focus effects to enhance usability.**
✅ **A success modal popup that confirms successful registration with a message and an image.**
✅ **Smooth transitions and styling to maintain a professional look.**

This form ensures a seamless onboarding experience for users while maintaining clarity and responsiveness. Let me know if you need any refinements

REFERENCES

- **Marcotte, E. (2010).** ***Responsive Web Design*****. A Book Apart.**
- **Flanagan, D. (2020).** ***JavaScript: The Definitive Guide*** **(7th ed.). O'Reilly Media.**
- **Norman, D. A. (2002).** ***The Design of Everyday Things*** **(2nd ed.). Basic Books.**
- **Brown, L. (2019). "Improving Web Applications with Modal Dialogs."** ***UX Journal*****.**
- **Lee, S., & Kim, K. (2018). "Improving Web Form Usability."** ***International Journal of Human-Computer Interaction, 34*****(6), 475-490.**
- **W3C. (2020).** ***Web Content Accessibility Guidelines (WCAG) 2.1*****. World Wide Web Consortium (W3C).**
- **Resig, J. (2013).** ***Pro JavaScript Techniques*****. Apress.**
- **These references cover the main concepts of responsive design, user experience, form validation, and frontend development for our project.**